TRANSLATION PATENT COOPERATION TREATY From the INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION 04F001-PCT See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/JP2004/000174 14.01.2004 International Patent Classification (IPC) or both national classification and IPC Applicant NATIONAL INSTITUTE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application 2. **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/JP	Authorized officer	
Facsimile No.	Telephone No.	

For further details, see notes to Form PCT/ISA/220.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

Box	No. I	Basis of this opinion
1.		regard to the language, this opinion has been established on the basis of the international application in the language in which it was unless otherwise indicated under this item.
		This opinion has been established on the basis of a translation from the original language into the following language
	_	, which is the language of a translation furnished for the purposes of international search (under
		Rule 12.3 and 23.1(b)).
2.		regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed attion, this opinion has been established on the basis of:
	a.	type of material
		a sequence listing
		table(s) related to the sequence listing
	b.	format of material
		in written format
		in computer readable form
	c.	time of filing/furnishing
	,	contained in the international application as filed.
		filed together with the international application in computer readable form.
	•	furnished subsequently to this Authority for the purposes of search.
3.		In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Addi	tional comments:
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

Inventive step (IS) Claims Claims Claims Claims Claims Claims Claims 1-12 Industrial applicability (IA) Claims Claims Claims Claims 1-12 Industrial applicability (IA) Claims Claims Industrial applicability (IA)	rolled					
Inventive step (IS) Claims Claims Claims Claims 1-12 Industrial applicability (IA) Claims 1-12 Claims 2. Citations and explanations: Claims 1-12 Document 1: Masatoshi YASU et al., Reverse Link Perfections	NO YES NO YES NO Ormance rolled					
Inventive step (IS) Claims Claims Claims 1-12 Industrial applicability (IA) Claims 1-12 Claims 1-12 Claims 1-12 Claims Document 1: Masatoshi YASU et al., Reverse Link Perfections	NO YES NO YES NO Ormance rolled					
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Document 1: Masatoshi YASU et al., Reverse Link Perfo	rolled					
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Improvement for Dynamic Parameter Cont						
improvement for Dynamic Laumeter Cont	ous .					
OFDM Using Alamouti Coded Heterogene	•					
Polarization Antennas, The Institute of						
Electronics, Information and Communication	on					
Engineers Gijutsu Kenkyu Hokoku, 08 Jan	uary					
2004, Vol.103, No.552, pages 25 to 30,						
RCS2003-248						
Document 1 describes a STBC/OFDM system in which tw	vo transmitting antennas having					
orthogonal polarities and two receiving antennas are disposed nonconcurrently, respectively						
Therefore, the inventions of claims 1-12 appear to possess	no exceptional point.					
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PATENT COOPERATION TREATY

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Telephone No.

Facsimile No.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

Box	No. I	Basis of this opinion
1.	With filed,	egard to the language, this opinion has been established on the basis of the international application in the language in which it was nless otherwise indicated under this item.
		his opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under
	_	Rule 12.3 and 23.1(b)).
2.	With	egard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed on, this opinion has been established on the basis of:
	a.	ype of material
		a sequence listing
		table(s) related to the sequence listing
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	,	contained in the international application as filed.
		filed together with the international application in computer readable form.
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3.		n addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or urnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as iled or does not go beyond the application as filed, as appropriate, were furnished.
4.	Addi	onal comments:
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

Box			ule 43bis.1(a)(i) with re pporting such statemen		entive step or indu	ustrial applicability;
1.	Statement		·			
	Novelty (N)	Claims Claims	1-12			Y
	Inventive step (IS)	Claims Claims	1-12			Y
	Industrial applicability (IA)	Claims Claims				
	Improv OFDM Polariz Electro Engine	ement for Using A ation Ar nics, Infers Giju Vol.103, 03-248 a STBC and two	receiving antenr	Heterogeneous Heterogeneous titute of ommunication toku, 08 Janua 25 to 30,	olled us n ary o transmitting ed nonconcur	rrently, respective
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